

ABSTRACT OF THE DISCLOSURE

A first process for producing a modified electrolyte consistent with the present invention comprises an amine treatment step of contacting a solid polymer electrolyte or a precursor thereof with an amine compound. Further, a first modified electrolyte consistent with the present invention consists essentially of what is obtained in such a process. A second process for producing the modified electrolyte consistent with the present invention includes a step of introducing, to a solid polymer compound having a functional group A, a first modifying agent comprising at least one functional group B capable of reacting with the functional group A thereby forming a first intermediate acid group; and the step also includes reacting the functional group A and the functional group B. Further, a second modified electrolyte consistent with the present invention comprises a solid polymer compound having side chains, at least one terminal acid group present at terminals of the side chains, and at least one intermediate acid group and/or reformed acid group present within the side chains identical with the side chains containing the terminal acid group.